WEAPON SYSTEM COST SUMMARY FACT SHEET

As of September 30, 1971 (Millions of Dollars)

		(1)		(2)			(3)		(4)	(5	i)	(6	5)	•
Weapon	Development Estimate Total Program Cost		Quantity	Change		Adjusted lopment Est otal Progra	LTE.	i	r Cost	Current Estimate Total Program		Cost Changes in Current Estimate This Quarter		•	
System	Quantity	Total	Unit	Quantity	Cost	Quantity	Total	Cost	Total	Pct.*	Total	Unit	Total	Unit	
EMY ORDERENG (PAD Only) DATES (Battalions Int) SAWY (Ptry.Sets) 187-08703 SAFEGUARD (Sites) SAM-D (Batteries)	10 7 101 3,744 2 124	(b) \$ 126 653 588 2,161 4,185 4,031	(c) \$ 12.6 93.3 5.8 .561 2,092.5 a/ 32.5	(a) - 11 - 1,338 + 1 - 75	(b) \$ - + 8 - 112 - 602 + 830 - 1,791	(a) 10 7 90 2,466 3 49	(b) \$ 126 661 476 1,499 5,015 2,240	(c) \$ 12.6 94.4 5.3 .623 1,671.7 a		(b) 1346 16 58 48 24 75	(a) \$ 295 766 752 2,220 6,199 3,922	(b) \$ 29.5 109.5 8.4 .923 2,067.0 a/ 80.0	(a) \$+ 2 - - + 15	(b) \$+ .2 + .1 2 + .5.7	
MANY ATTS ATTSA E-20 F-14 P-30 S-34 AEDIS OCEDOR EMPROCIT FRUNCTS FORESTOCK STANSON E STANSON E MONTH MOD 1 SSN-666 DD-763 DDDH-38 DMA GVALL 68/69 AM/FRS-13 DMA	595 114 30 469 104 199 3,348 4,2624 2,354 2,354 35,077 10,725 4,194 32 30 44	1,466 504 506 6,166 1,295 2,951 428 441 1,071 526 4,569 741 1,754 5,747 2,581 769 1,380 1,003	2.463 4.418 19.540 13.146 12.444 14.528 .251 .225 .251 .225 .021 .042 .418 179.609 96.040 192.300 192.300 5.44.2** 5.14.2**	- 29 - 156 + 86 - 2,480 - 1,023 - 25,690 + 1,484 + 6 - 1 - 4	- 71 - 1,111 + 949 - 150 - 186 - 244 - 420 + 112 - 132 - 132 - 480 - 440	566 114 30 313 190 199 868 4,262 3,407 12,269 4,149 30 33 52 84	1,395 504 586 5,055 5,055 2,243 2,551 426 231 1,772 4,325 321 763 6,830 2,581 1,673 6,830 1,663	2.465 4, 418 19.540 16.149 11.806 14.528 -336 .251 .212 139.519 .046 .046 .422 179.750 86.040 212.300 179.940 544.2** 519.0**	+ 213	53 -146 11 8 -1 8 -13 30 -13 73 -14 11 4 -5 29 7 24	2,131 500 858 5,268 2,219 3,136 1,085 1,252 4,784 927 7,080 2,715 420 960 1,316	3.765 4.382 28.607 16.830 11.681 15.759 - 436 - 255 - 367 154.326 - (75) - (73) - (73) - (73) - (73) - (73) - (76) - (8*** - (8*** - (8.25)	+ 24 + 9 + 1 + 56 - 129 - 3 + 9 - 2 - 270 - 270 - 11 - 5 + 255 - 70 + 62	- 8.726 001	* Column ha divide by Column 3b. ** CVAI 65. ** CVAI 65. ** CVAI 69. a/ Unit Crst is "cost per site," include: Perimeter Acquisi- tion Fadar, Miss- site Fadar, miss- sites, etc. p/ Includes 21 3251's & accompanying missiles, tendero.
ATR FORCE A-TD A-X B-1 C-5 F-15 F-11A/D/E/F B-11IA ANACS MINICEMAN III MINICEMAN III SEAM SPARFOW E DEASPOW F	517 4 246 120 325 743 1,248 264 42 17,265 666 760 760 770 22,714.2/	1,379 84 11,219 3,413 696 7,355 5,506 1,761 2,661 4,855 4,875 4,874 237 529 254	2.67 21.12 45.60 28.44 2.15 9.82 3.97 6.75 63.37 0.022 6.39 6.15 0.336 0.023	- 130 - 2 - 39 - 187 - 8,019 + 2 - 62 + 1,200 -12,497 - 950	- 283 - 34 - 736 - 2,646 - 1,043 - 82 + 4 - 155 + 125 - 291 - 37	387 4 244 81 325 743 454 9,136 668 698 698 1,900 10,243 3,950	1,096 84 11,185 2,677 698 7,355 2,360 738 2,661 301 4,259 4,519 362 238 217	2.83 21.12 45.84 33.05 2.15 9.82 6.30 9.59 63.37 0.033 6.36 6.47 0.191 0.023 0.055	+ '293 - 62 + 1,878 + 9 - 46 + 3,920 + 547 - 49 + 627 + 1,571 + 942 - 5 + 81	27 - 1 70 1 - 1 137 74 - 6 15 35 260 - 2	1,389 84 11,123 4,555 707 7,309 6,780 1,285 2,661 350 4,886 6,090 1,304 233 298	3.59 21.12 45.58 56.23 2.18 9.76 14.93 16.69 63.37 0.038 7.31 5.72 0.686 0.023 0.075	+ 12 - + 10 - + 112 - 24 + 142 + 105 - - 10	+ 0.03 - 0.01 + 0.03 16 05 + .21 + .15 	& range saipt. § Cost chaire due to reduction in number of miscile. Verage obligs within 31 SSEO darse. Flanniam Estimate. Percappaga Estimate unions in propertion. Flanniam Do' mater Detection and Detection a
PEOGRAM COST SUMMARY ASMS MANY ALS FORCE GRAID TOTAL		11,684 35,051 44,428 \$91,163			- 1,667 - 265 - 5,178 - 7,110		10,017 34,786 30,250 30-,053		+ 4,137 + 4,098 + 9,804 \$+18,039	41 12 25 21	14,154 38,884 49,054 \$102,092		+ 17 - 55 + 353 \$+ 312		

SOURCE: Selected Acquisition Reports -- As of September 30, 1971.

OASD(Comptroller)
Directorate for Information Operations
January 25, 1972

Selected Data on SAR Programs As of September 30, 1971

(\$ in Millions)

5 0	Pr	Procurement					
Program	Development	Procurement	Construction	Total	Unit Cost *		
RMY CHEYENNE (R&D Only) LANCE	294.5 453.9	- 312.4	- -	294.5 766.3	- 44.6/Bn .147/Ms		
Impr. HAWK MBT-XM803 SAFEGUARD	104.2 258.5 2,402.0	646.4 1,961.2 2,966.0	1.3 - 831.0	751.9 2,219.7 6,199.0	** 7.2/Btry .817 .988.7/Site 2.365/SPRI 5.857/SPAR		
SAM-D	1,006.0	2,838.6	77. 2	3,921.8	57.9/Btry .115/Ma		
AVY A-7E AV-&A E-2C F-14 P-3C S-3A	19.2 - 208.3 1,436.4 210.4 735.2	2,110.0 499.4 649.9 3,826.2 2,009.0 2,397.6	1.6 .1 - 5.2 - 3.2	2,130.8 499.5 858.2 5,267.8 2,219.4 3,136.0	3.728 4.38 23.2 12.712 10.574 12.6		
AEGIS CONDOR HARPOON PHOENIX POSEIDON	482.6 186.3 245.9 166.2 1,301.2	192.3 837.4 1,085.3 3,453.9	1.6 - 29.0	482.6 378.6 1,084.9 1,251.5 4,784.1	- .260 .200 .322 111.4/SSBN 3.816/Ms1		
SPARROW E SPARROW F MK-48 Mod 1 SSN-688 DD-963 DLGN-38 LHA CVAN 68/69 AN/BQS-13 DNA	18.5 70.9 171.4 - 37.6 21.0 22.3 -	310.9 856.1 1,764.1 7,080.1 2,677.6 799.2 937.7 1,316.2 549.7	11.0	329.4 927.0 1,946.5 7,080.1 2,715.2 820.2 960.0 1,316.2 696.4	3.616/Ms1 .033 .070 .387 186.3 89.253 247.8 187.54 639.4/676.		

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CITY .

	Pr	Procurement			
Program	Development	Procurement	Construction	Total	Unit Cost *
AIR FORCE A-7D A-X B-1 C-5 F-5E F-15 F-111 FB-111 AWACS MAVERICK MINUTEMAN II MINUTEMAN III SRAM SPARROW E SPARROW F	59.8 84.5 2,628.3 1,029.2 100.8 1,728.7 1,641.5 218.6 880.2 139.7 1,470.1 1,946.2 470.6	1,329.5 8,494.3 3,508.4 606.4 5,580.0 5,119.3 1,060.7 1,781.1 210.2 3,075.2 4,126.5 818.9 232.7 286.5	- 17.2 - 19.1 5.5 - 341.0 16.8 14.6	1,389.3 84.5 11,122.6 4,554.8 707.2 7,308.7 6,779.9 1,284.8 2,661.3 349.9 4,886.3 6,089.5 1,304.1 232.7 298.0	3.435 - 35.2 46.16 1.895 7.654 11.71 13.96 42.4 .023 4.96 6.21 .431 .023 .073
NON-STENNIS PROGRAMS IRMY DRAGON TOW M6CALE2 TACFIRE NAVY EA-6B SSN-637 DE-1052 VAST-247 DCA DSCS	108.6 102.9 17.6 66.9 296.9 - 7.2	254.9 581.4 380.4 134.4 862.2 2,941.4 1,415.0 436.9	- - .2 1.0 - -	363.5 684.3 398.0 201.5 1,160.1 2,941.4 1,415.0 444.1	.0049 .0074 .701 .953 20.5 79.497 30.761 5.080

^{*} Procurement Unit Cost derived by dividing total procurement cost by the procurement quantity.
** \$0.083M per HAWK missile.

OASD(Comptroller) Directorate for Information Operations February 16, 1972

Highlights of September 30, 1971 Selected Acquisition Reports

The table presented on the opposite page reflects comparative data, by weapon system and in terms of program quantity and program acquisition cost, for all weapon systems currently reported each quarter to the Senate Preparedness Investigating Subcommittee (Stennis Committee). In general, the table reflects for each weapon system a comparison between the baseline or evelopment Estimate (DE) of the total program (Col. 1) and the Current Estimate (CE) of the total program (Col. 5), identifying differences between the two estimates in terms of changes due solely to quantity adjustments (Col. 2) and changes due to all other reasons for cost growth (Col. 4). In addition, an Adjusted Development Estimate (Col. 3), based on Col. 1 plus or minus Col. 2, and Cost Changes in the Current Estimate, This Quarter (Col. 6) are shown for comparative purposes. Each column is more specifically defined in the Insert below.

Specific comments on those weapon systems which experienced significant cost changes since the previous quarter follow:

- 1. A-7E The Current Estimate for this program has increased by \$24.2M since the previous report due to higher out-year engine procurement costs.
- 2. F-14 Total program costs, now estimated at \$5,267.8M are up by a net of \$55.9M since the June report. Program increases include \$39M being reprogrammed to cover the increased cost of Pratt & Whitney TF-30 engines, and \$36.6M to provide additional Navy support for Advanced Technology Engine (ATE) development. These were partially offset by a \$19.7M decrease in flyaway and support costs resulting from program adjustments to make additional funds available for engine procurement. The third F-14 (#9) was delivered on August 31. This aircraft has been assigned the uncompleted tasks of aircraft #1, lost in a crash last December.
- 3. P-3C Total program costs have decreased by \$129.4M since the previous report, reflecting reductions of \$2.1M because of a two plane cutback in the total program quantity, \$103M due to the earlier procurement of FY73-75 aircraft as a more economical rate, and \$24.8M resulting from revised spares requirements. Partially offsetting these reductions is an increase of \$20.5M associated with engine improvements.
- 4. POSEIDON Total program costs, now estimated at \$4,784.1M, are down by \$270.5M since the June SAR. These reductions include: \$222.2M because of lower negotiated missile and other equipment costs; \$14.1M due to a decrease in estimated inflation; and \$33.4M resulting from the use of lower estimates (based on actual experience) for converting ships to POSEIDON capability. During the quarter ending September 30, 1971, three additional SSBN's were deployed for six to date, and two additional SSBN conversions were completed, making nine conversions to date. A seventh SSBN has been deployed since then. In addition, a total of 18 POSEIDON missiles has been launched from submerged SSBN's through September 30, 1971 for which the Navy reports a weapon system success ratio of 79.8%.
- 5. SSN-688 Total program costs for the SSN-688 are currently estimated to be \$7,080.1M. This is an increase of \$255.2M since the June 30, 1971 report. The increase reflects \$180.5M fcr an additional ship in FY 1973 and \$74.7M associated with the projection of each fiscal year program in "Then Year" dollars.
- 6. DIGN-36 The Current Estimate for this program is now reported at \$20.2M for three ships (DIGN's 38, 39 and 40) plus long lead time funds for the DIGN's 41 and 42. This is a reduction of \$69.6M from the June 30, 1971 estimate, resulting from further price adjustments associated with the cutback to the current three ship program which was approved last April. Agreement has been reached with Newport News on a fixed price incentive contract for the procurement of the first three DIGN-38 Class ships with priced options for a fourth and fifth ship as a contingency against possible future decisions. The principal cost and schedule terms of the negotiated contract were forwarded by the SecNavy to OSD on December 11, 1971 for concurrence prior to contract award.
- 7. CVAN 68/69 Total program costs for the two ships are now estimated at \$1,316.2M, up by \$82.4M since the June report. The increase, \$33.6M for the CVAN 68 and \$48.8M for the CVAN 69, is due to a \$37.5M increase in the cost of the GFE nuclear power plant, and a \$45M increase in basic shipbuilding costs because of higher engineering manhour and overhead rates. Construction is now 67% complete for the CVAN 68 and 14% for the CVAN 69 as compared to 59% and 11%, respectively, at the end of June 30, 1971.
- 8. F-111A/D/E/F The follow-on buy in FY 1972 of 12 F-111F aircraft at an additional cost of \$112M is reflected in this report.
 - 9. MAVERICK A program reduction of 2,000 production and 10 contingency test missiles resulted in a reduction of \$24M.
- 10. MINUTEMAN II & MINUTEMAN III Increases of \$142M in the MINUTEMAN II and \$108M in the MINUTEMAN III resulted, for the most part, from the add-on of support requirements for FY 1977, and engineering changes to improve the missile suspension isolation and Dust and Debris systems, Closure Actuator capability and G&C cooler survivability.

Explanation of Columns - Summary Fact Sheet 1/

- Column 1 Development Estimate (DE)
 Based on Col. 1 of the SAR and is estimate at the time program is approved for full scale development.
- Column 2 Quantity Change
 Represents the portion of cost change due to change in quantity.
- Column 3 Adjusted Development Estimate
 Col. 1 of table + Col. 2.
- Column 4 Other Cost Growth

 Represents cost changes attributable to all other reasons except quantity
 (engineering, schedule, inflation, economic, etc.) (Page 9, Encl. 1 to DoDI 7000.3).
- Column 5 Current Estimate Total Program
 Based on Col. 2 of the SAR and is estimate "as of" the date of the report.
- Column 6 Cost Changes during Current Quarter
 Derived by calculating difference between Current Estimate of previous quarter and that of present quarter.
- Data are derived from Section E, Program Acquisition Cost, of the Selected Acquisition Report (SAR), Page 5, Encl. 2, dated September 13, 1971.
 SOURCE: Selected Acquisition Reports--As of September 30, 1971.

Distribution of Cost Growth by Category (Other than Quantity Changes) As of September 30, 1971 (Millions of Dollars)

	Engine	ering	Supp	ort	Sche	dule	Econ	отіс	Estim	ating	Unpr dicts		Cos Over		Contr. Incer		Cont: Price		Other	<u>a</u> /		pop Total
Weapon System	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date	This Qtr	To Date
APMY CHEYENNE (RAD Only) LANCE (Battalions) Imp. HAWK(Btry.Sets) MET-XW803 SAFEGUARD (Sites) SAM-D	+ 4	75 1 32 2 9 8	+ 12*	2 6 90 162 135 - 2	-	58 88 87 280 109	- 2 - 2 - 3	19 29 451 591 638	- + 2 -133* + 15 + 2	3 ¹ 4 16 36 - 169 919	- 2	57 5 - -		1 1 19 -		-					+ 2	16) 109 276 721 1,184 1,682
NAVY A-TE AV-BA E-2C F-14 P-3C S-3A ABBIS CONDOR HARPOON PHOENIX POSEIDON SPARROW III E SPARROW III E SPARROW III S DD-963 DLGN-38 LHA CVAN 68/69 AI/BGS-13 DNA	+ 21 - 4 - 4 3 - 4 41 - 41	21 - 10 - 30 - 47 6 11 6 - 107 - 88 78	+ 12 - 25 + 93 13 11	2 3 29 17 -251 12 13 - 4 - 21 - 21 - 21 - 21 - 21 - 7 - 7	-106 	603 51 40 81 6 6 12 362 40 3 132	+106 + 6 21 - + 9 + 8 14 2 + 75 2 + 5	107 7 57 -118 212 42 37 117 35 4 152 250 136 54 42 20	+ 24 + 3 + 1 + 44 - 95 - 2 - 243 1 + 27 - 27 - 34 - 27 - 34 - 34	24 88 124 8 8 124 8 8 - 358 19 21 162 - 22 18		32	+ 41	71 146			+ 3				+ 24 + 9 + 1 + 56 -107 - 3 + 9 + 10 -270 - 1 -268 + 75 - 8 - 82	73 - 27 21 - 2 24 5 8 1 5 3 45 3 19 25 13 18 6 27
A-TD A-TD A-X B-1 C-5 P-5B F-15 F-111A/D/E/F FB-111A AWACS MAVERICK MINUTEMAN II SRAM SPARROW III E SPARROW III F	+ 3 1 + 52 + 80 20	152 	+ 17 + 7 + 1 + 87 - 6 + 1	77 - 57 204 5 - 62 607 174 2 - 7 98 -119 113	- 1	50 212 96 - 3 - 705 103 - 12 114 17	- 1 	40 14 410 - 181 41 - 25 - 95 46 -	- 4 	- 26 -747 902 2 - 7 1,038 69 - 2 - 3 - 39 -206 522 - 9 45	- 1	20		80	+5	9 - 5 3				+ 385	+ 12 	29 - (1,87 - 1,87 - 1,37,92 - 1,57 - (2,7)
SUMMARY Army Navy Air Force	+126 + 59 +114	127 431 3,326	+ 12 + 77 +107	393 -144 1,151	-188 - 2	622 1,344 1,215	- 5 +170 + 42	1,728 1,474 897	-114 -553 +112	1,174 810 1,539	- 2 - 1	62 73 96	+ 41	31 110 88	+ 5	17	. + 3	=		1,475	+ 17 -391 +377	4,0 9,8
GRAND TOTAL	+299	3,884 22	+196	1,400	-190	3,181 18	+207	4,099 23	- 555	3,523 19	- 3	231 1	+ 41	229 1	+ 5	17	+ 3	_	-	1,475 å	+ 3	15,0 1

^{*} Corrections of \$133M previously reported as Estimating to \$121M Engineering and \$12M Support.

a/ MINUTEMAN Command Data Buffer and Upgrade Silo programs.

OASD(Comptroller)
Directorate for Information Operations
January 25, 1972

FUNDING STATUS OF SAR SYSTEMS As of September 30, 1971 (\$ in Millions)

	(;	in Million	is)		
Weapon System	Current/& Prior Year Funds	FY 1972 Budget	FYDP Years FY 73-77	Balance	Total Current Estimate
ARMY CHEYENNE LANCE Imp. HAWK MBT-XM803 SAFEGUARD SAM-D	268 480 326 204 3,587 273	115 100 80 1,278 115	27 171 326 858 1,334 791	- 1,078 - 2,743	295 766 752 2,220 6,199 3,922
NAVY A-7E AV-8A E-2C F-14 P-3C S-3A AEGIS CONDOR HARPOON PHOENIX POSEIDON SPARROW E SPARROW F MK-48 MOD 1 SSN-688 DD-963 DIGN-38 LHA CVAN 68/69 AN/BQS-13 DNA	1,301 152 206 1,731 1,147 509 147 148 24 339 3,349 273 71 391 1,310 849 558 817 1,100 99	87. 113 305 1,030 329 582 100 24 39 106 518 38 193 881 599 244 125 194 70	743 235 347 2,507 743 2,045 236 206 482 602 917 18 322 1,055 4,774 1,262 18 18 22 324	540 205 - 510 308 115 - 203	2,131 500 858 5,268 2,219 3,136 483 378 1,085 1,252 4,784 329 927 1,947 7,080 2,715 820 960 1,316 696
AIR FORCE A-7D A-X B-1 C-5A F-5E F-15 F-111A/D/E/F FB-111A AWACS MAVERICK MINUTEMAN II MINUTEMAN III SRAM SPARROW E SPARROW F	1,163 30 319 4,011 46 602 6,289 1,285 179 127 4,292 3,177 583 233	214 47 370 383 123 420 486 - 139 91 88 861 237 - 8	12 7 5,151 161 538 5,047 5 - 2,333 132 506 2,052 484 - 289	5,283 1,240 - 10 -	1,389 84 11,123 4,555 707 7,309 6,780 1,285 2,661 350 4,886 6,090 1,304 233 298
TOTAL	41,996 41	1 0,756 11	3 7, 100 36	12,240 12	102,092 100

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